Part 11 · The Escape Challenge

Five gates, each a calculation. Each gives you one digit. Collect all five to unlock the exit code.

🔒 GATE 1 — The Degree Gate

What is the degree of the polynomial $5x^3 - 4x^2 + x - 2$?

Digit: ☐

🔒 GATE 2 — The Zero Gate

Find the zero of the linear polynomial $2x - 8$.

Digit: ☐

🔒 GATE 3 — The Sum Gate

For $x^2 + 7x + 10$, what is the sum of the zeroes (as a positive number, ignore sign)?

Digit: ☐

🔒 GATE 4 — The Product Gate

For $x^2 + 5x + 6$, what is the product of the zeroes?

Digit: ☐

🔒 GATE 5 — The Maximum Gate

What is the maximum number of zeroes a cubic polynomial can have?

Digit: ☐

EXIT CODE: ☐ ☐ ☐ ☐ ☐

Every quadratic and cubic you meet from here on has its zeroes hiding in plain sight inside its coefficients — you now know exactly how to find them.